

Amendments to the claims

Please amend the claims as follows:

1. (Currently Amended) A battery pack comprising:
 - at least one battery cell;
 - first and second switches connected to each of the at least one battery cell;
 - a switch controller for controlling the first and second switches, wherein the first and second switches perform either charging of the at least one battery cell or supplying power from the at least one battery cell;
 - a voltage measuring unit for measuring a voltage of the at least one battery cell via the first and second switches; and
 - a controller for selecting the at least one battery cell according to a residual voltage of each battery cell and a control signal of a terminal, and controlling the switch controller ~~to perform either charging of the at least one battery cell or supplying power from the at least one battery cell via the first and second switches.~~
2. (Original) The battery pack of claim 1 further comprises:
 - an interface unit for interfacing an external terminal and a charging unit.
3. (Previously Presented) The battery pack of claim 2, wherein the interface unit comprises:
 - a power input terminal for transferring power supplied from the charging unit to the first switch;
 - a power supply unit for supplying power of the at least one battery cell received via the second switch to the terminal;
 - a command input terminal for outputting a control signal of the terminal to the controller; and
 - a command output terminal for outputting result data of the controller to the terminal.

4. (Original) The battery pack of claim 1, wherein the first switch is a charge switch and the second switch is a supply switch.

5. (Previously Presented) The battery pack of claim 1, wherein the control signal of the terminal indicates a mode change, a switch manipulation and measurement of a residual voltage of the at least one battery cell.

6. (Previously Presented) The battery pack of claim 1, wherein the controller comprises:

a voltage measuring unit for measuring a charge voltage and residual voltage of the at least one battery cell;

a command interpreting and controlling unit for performing a controlling operation according to the measurement voltage of the voltage measuring unit and a control signal of the terminal; and

a charge switch controller for controlling the switch controller according to a control signal of the command interpreting and controlling unit.

7. (Previously Presented) The battery pack of claim 6, wherein the voltage measuring unit, the command interpreting and controlling unit, and the charge switch controller are is implemented as either a low voltage logical circuit or [[as]] a microcomputer.

8. (Previously Presented) The battery pack of claim 1, wherein the controller switches to a manual mode according to the control signal to perform either charging the at least one battery cell or supplying power from the at least one battery cell according to the residual voltage of each of the at least one battery cell.

9. (Previously Presented) The battery pack of claim 8, wherein the controller selects and charges the at least one battery cell having the least memory effect according to the residual voltage of each of the at least one battery cell.

10. (Previously Presented) The battery pack of claim 9, wherein the controller charges the at least one battery cell in a sequential order beginning with battery cell having the least memory effect according to the residual voltage of each of the at least one battery cell.

11. (Previously Presented) The battery pack of claim 8, wherein the controller selects each of the at least one battery cell having a residual voltage greater than a minimum threshold voltage and uses the selected battery cells for supplying power to the terminal.

12. (Previously Presented) The battery pack of claim 10, wherein the controller sequentially supplies power to the terminal using the at least one battery cell having the smallest residual voltage.

13. (Previously Presented) The battery pack of claim 8, wherein if the residual voltage of each of the at least one battery cell is lower than the minimum threshold voltage, the controller is switched to a basic mode for performing a charge and supplying power via the first and second switches by connecting all of the at least one battery cell in parallel.

14. (Previously Presented) The battery pack of claim 8, wherein the controller measures and reports a voltage of each of the at least one battery cell if there is an external request for a residual voltage measurement.

15. (Withdrawn) A method for charging a battery pack having at least one or more battery cells and supplying power, comprising:

selecting a battery cell with the smallest memory effect from a plurality of battery cells and charging the selected battery cell; and

selecting a battery cell with the smallest memory effect from the charged plurality of battery cells and supplying power to a terminal.

16. (Withdrawn) The method of claim 15, wherein the charging step comprises:

measuring residual voltages of each battery cell;

comparing the measured residual voltages with the minimum threshold voltage;

and

selecting a battery cell having the smallest residual voltage among residual voltages which are greater than the minimum threshold voltage and charging the selected battery cell.

17. (Withdrawn) The method of claim 16, wherein the residual voltage of the selected battery cell is greater than the minimum threshold value but smaller than a reference threshold voltage.

18. (Withdrawn) The method of claim 17, wherein the reference threshold voltage is the lowermost voltage in a range of maximum charge voltages.

19. (Withdrawn) The method of claim 16 further comprising:

connecting the plurality of battery cells in parallel and charging these battery cells if there is no residual voltage greater than a minimum discharge threshold voltage.

20. (Withdrawn) The method of claim 15, wherein the power supply step comprises:

measuring each residual voltage of the plurality of battery cells;
comparing the measured residual voltages with the minimum threshold voltage;
and
supplying power of a battery cell, having the smallest residual voltage among
residual voltages which are greater than the minimum threshold voltage, to the terminal.

21. (Withdrawn) The method of claim 20 further comprising:
connecting the plurality of battery cells in parallel and supplying power if there
is no residual voltage greater than the minimum threshold voltage.

22. (Withdrawn) An operation method of a battery pack including at least one
or more battery cells, comprising:
selecting a first battery cell according to a control signal inputted from a
terminal;
charging the selected first battery cell;
selecting one or more second battery cells which have been previously charged
according to a control signal of the terminal; and
supplying power of the selected second battery cell to the terminal.

23. (Withdrawn) The method of claim 22, wherein the first battery cell has
the least memory effect.

24. (Withdrawn) The method of claim 22, wherein the first battery cell has
the smallest residual voltage among battery cells which have a residual voltage greater
than a minimum threshold voltage.

25. (Withdrawn) The method of claim 22, wherein the second battery cell has
a residual voltage greater than the minimum threshold voltage.